

DEVICES INCORPORATING ELECTROCHROMIC ELEMENTS AND OPTICAL SENSORS

ABSTRACT OF THE DISCLOSURE

[00101] The device of the present invention includes an electrochromic element having a transmittance that varies in response to an electrical signal, a base substrate disposed in spaced relation to the electrochromic element, a seal disposed between the base substrate and the electrochromic element, and an optical sensor. The seal, base substrate, and electrochromic element form a sealed cavity therebetween, in which the optical sensor is disposed. According to another embodiment, an electrochromic device is provided that includes a first substrate, an electrochromic medium disposed on the first substrate, a pair of electrodes in contact with the electrochromic medium, a pair of conductive clips, each in electrical contact with a respective one of the electrodes, and two pairs of electrical lead posts for mounting the first substrate to the circuit board. Each pair of lead posts is attached to, and extends from, a respective one of the conductive clips. According to another embodiment, an imaging device is disclosed having an image recorder for recording a scene or object, and an electrochromic element positioned between the image recorder and the object or scene to be imaged. The electrochromic element is configured to exhibit a non-uniform transmittance in response to an applied electrical signal.